

October 23<sup>rd</sup>

#7

An  
Inaugural Essay

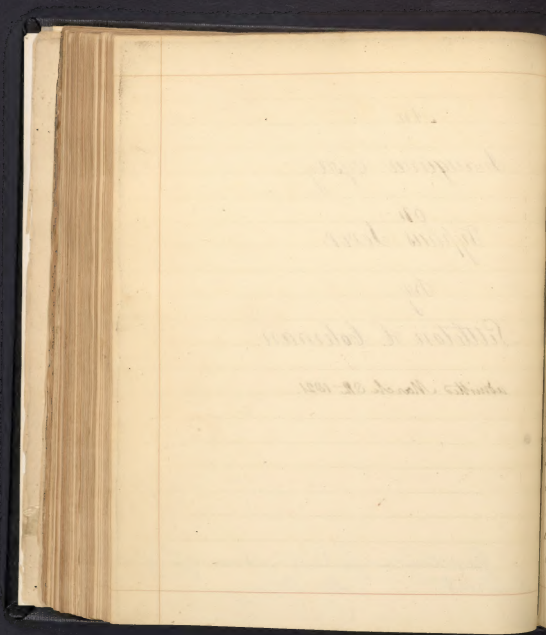
on  
Typhus Fever

By

Pittleton H. Coleman.

admitted March 8<sup>th</sup> 1821.

Providence So. East corner of 8<sup>th</sup> Street  
at Street } Mrs. Myring



## Typhus Fever.

The term Typhus is derived from the Greek word *typos*, which signifies stupor, or heaviness, an affection which in a large majority of cases, is associated with this formidable shape of continued fever.

Typhus Fever has been divided by the best Nosological writers, into Typhus Atticus and Typhus Gravior; but this division cannot be of any practical utility. The latter form being nothing more than the first, with all its symptoms much augmented in force and violence: hence there appears to be no obvious reason for retaining such division.

It will be proper to add, that there is no material difference as to its nature, whether it be Idiopathic or Symptomatic; the symptoms are the same, demanding the same treatment, conducted on similar principles, and cured by the same remedies.

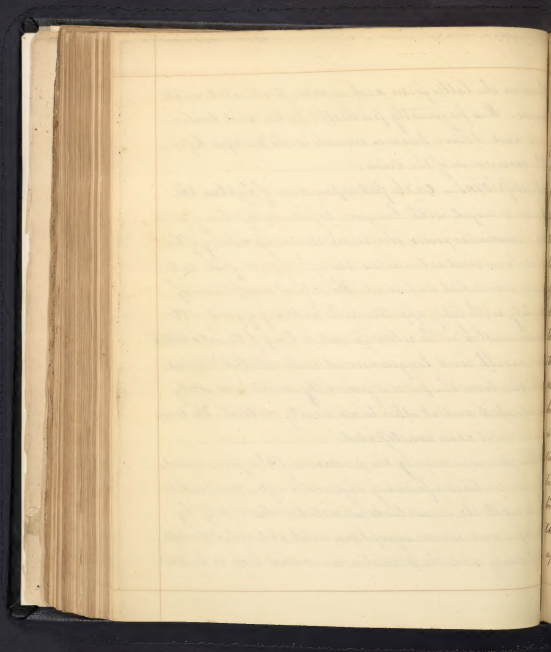
The only difference, which demands our attention, in the two forms mentioned by Nosological writers, is, that Typhus Atticus comes on with its symptoms much milder.



than in the latter form and is more protracted in its course. It is frequently protracted to ten and twelve days, and I have known several weeks to elapse before the occurrence of the crisis.

Symptoms.— On the first appearance of typhus, the person is seized with languor, lassitude, dejection of spirit, loss of muscular power, universal weariness, aching of the head, loins and extremities; the eyes appear fall and vision somewhat impaired. The patient complains of debility, with loss of appetite and loathing of food. He becomes restless, with coldness and aching of the extremities, foul mouth and tongue covered with whitish mucus. At this time the pulse is generally small and easily compressed, and at other times nearly natural. The bowels are in most cases constipated.

These are commonly the precursors of this fever; indeed, they are continued for many days, and are often protracted to weeks, while the disease lurks concealed, or shows itself by doubtful, and obscure symptoms, until at length, it develops itself openly, and the patient is compelled to go to bed.

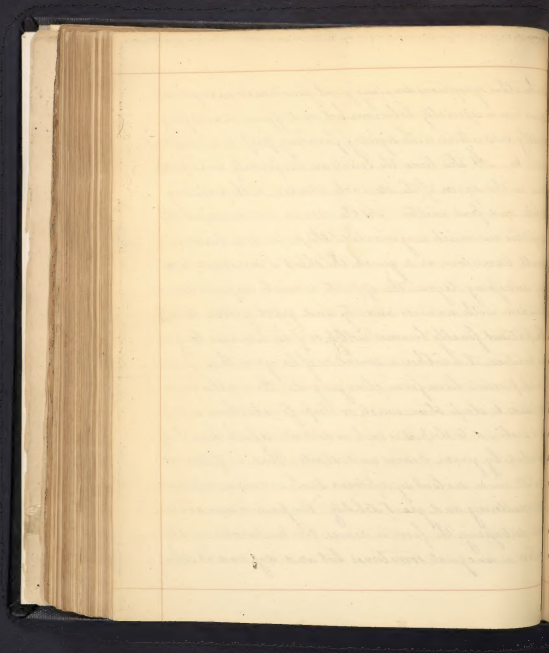


But Typhus Gravior is much more malignant and vehement in its onset, and rapid in its progress. As in the milder form of this disease, the patient is at first struck with sudden prostration of strength, in which the intellectual faculties fully participate. Even at this early stage, there is tenderness and soreness of the muscles; pains both acute and dull are felt throughout the head, back and extremities, with alternations of chills and flushes of heat. These symptoms are speedily followed by a well defined fever, and considerable determination to the head: which is indicated by the troublesome pulsations of the carotid and temporal arteries, tremor of the head, suffused countenance, dimness of vision, eyes wild and inflamed, and destitute of their brightness, cannot bear the light. At this time the head is intense, great determination to the head, and a constant tendency to delirium. Examined at this conjuncture, the tongue is found dry, hard, chapped and incrustated, with a brown matter; the gums and teeth are next covered with the same offensive matter, having at this time more the appearance of fur. The pulse becomes quick and corded





with other symptoms denoting great functional arrangement  
respiration is especially laborious, hot and offensive; and fre-  
quently interrupted with sighing, fainting, palpitations of the  
heart &c. At this time the bowels are uniformly constipated  
pain in the region of the stomach, attended with vomiting  
of bile and foul matter. As the disease advances, all the  
symptoms are much augmented, the pulse now becomes  
small, tremulous, and quick, the thirst is increased to a  
very distressing degree, the appetite is much impaired and  
attended with nausea, anxiety, and great gastric distress,  
the patient finally becomes restless, or if he remains long in  
one position, it is rather a sensation of languor than of ease,  
which prevents him from changing it. He is either more  
inclined to sleep than usual, or sleep forsakes him, and if  
he is inclined to sleep, it is such as does not refresh him, being  
disturbed by groans, dreams and starts. These are followed  
by still more violent symptoms, such as coma, delirium,  
low muttering and great debility; the pain is now acute,  
and distressing, the fever increases, the temperature of the  
surface is unequal, sometimes hot and dry, and at other



time cold and damp. The secretions become so as to  
aggravated, as to amount to a subcutaneous fermentation: the bowels  
frequently give way, at this stage of the disease, and a profuse discha-  
rges of dark faeces take place. Not unfrequently in the last stage,  
hemorrhages of dark discoloured blood, take place from the nose,  
mouth, gums, anus and bladder or under the cuticle forming  
macula and vesicles in different parts of the body. The urine  
presents various appearances, when it is high coloured, turbid,  
giving uneasiness on being discharged and depositing a  
ferruginous sediment we may expect a favourable termina-  
tion. But it is unfavourable, when it is of a dark olive  
colour, or pale, or limpid.

The mind is delirious; or disturbed, by the fear of death,  
the weak, impatient hold up, false images of things  
and babbles aboutities, until the pulse intermits and sinks, the  
extremities grow cold, through anæmia and death finally  
closes the tragic scene.

Prognosis.—These are the ordinary symptoms of Typhus,  
when it assumes an uncommon degree of violence and ma-  
lignity. But when more auspicious circumstances present



an abatement of all febrile excitement takes place, the general relaxation of the surface, maculae becomes more obvious, the tongue presents moisture and cleanliness, the pulse becomes more natural and stronger, the temperature is reduced, delirium and other subordinate symptoms subside, and we may with propriety add, as propulsions of men glandular swellings, and scabby eruptions more especially about the mouth.

Causes. With regard to the origin of typhus fever, much controversy of opinion has existed among the best writers of Europe. By a large majority it is believed to be produced exclusively by a specific contagion. That this is the case, under certain circumstances and in certain places cannot be doubted. The experiments of Staggarth go very far in confirmation of this assertion. These experiments prove, that of one hundred and eighty eight persons, who were exposed to the contagion of this disease, in a crowded and ill ventilated apartment, eight only escaped the disease. It has also been very satisfactorily proved, that the sphere of infection is circumscribed, and never extends far in the same room.



not to neighbouring apartments: provided each be well ven-  
tilated. . Nevertheless, it has been proved, that it may be con-  
veyed by omiles. And what is a more curious fact, contagion  
may be conveyed in the clothes of an individual, while the in-  
dividual himself escapes the disease, and those persons who  
come in contact, or within the common sphere of its action  
will be attacked with the fever. In proof of this, many facts  
might be adduced: one of the most striking on record is,  
that which took place at what was called the Black House  
at Oxford in Great Britain, under the famous Surgeon.  
A number of prisoners were kept in small ill ventilated  
apartments where the first fever had prevailed, and who  
had not themselves been affected with the disease, but to  
such a degree did the contagion exist in their clothes, that  
when they were brought into court the windows opposite  
the place where the Judge sat, were thrown open, and the  
people on whom the wind blew, were infected with the  
fever, while those on the opposite side escaped. It has also  
been proved very plainly, that the atmosphere has considerable  
influence in wafting noxious vapours.





The contagious character of Syphilis, is indebted generally to crowded, filthy ill ventilated rooms for its propagation. This is proved by the fact that so soon as patients are removed into cleanly and well ventilated apartments, the further progress of the disease is arrested. In confirmation of this assertion, Syphilis recently made its appearance in the jail of this City: the rooms of which were uncommonly crowded, and ill ventilated, the disease continued to extend itself among the prisoners, till the sick amounting to forty or fifty were removed into the large apartments, which had prior to this time been used, as a place of religious worship: in this case the further progress of contagion was completely terminated, because, the room was large well ventilated, and a free circulation of atmospheric air through out every part.

It has been a subject of much dispute, as to the precise period at which contagion takes effect, and still remains an unsettled question, as to absolute certainty, but from the observation of the best medical authorities, it is said to develop itself from the seventh to the tenth day, though there are facts which prove it to extend to the fifteenth, and even to the twenty day.



before showing any signs of disease. This fact is confirmed  
by the experiments of Haggarth, Bancroft and Dr. Crispin.  
During the summer of 1818, many vessels arrived at this  
port, with a large number of emigrants, among whom the  
Typhus had prevailed, and those individuals who had  
not been affected remained eight or ten weeks in the city, be-  
fore they were attacked with the disease.

It must be confessed that Typhus is produced by a variety  
of other causes, such as marsh miasmata, great fatigue, loss  
and abstinence diet, and from whatever tends to debilitate the  
system or depress the mind, and above all the sedation,  
in summer of cold.

Typhus Fever is not a prevalent disease in the Southern States,  
especially in private practice, but being more confined to  
jails, hospitals, &c. There fore, my own observation is limited;  
however, now and then a few sporadic cases occurred.  
But, since my residence in Philadelphia, I have had, fre-  
quent opportunities of seeing the disease, in its most aggravated form.

The disease in the United States, assumes a very different cha-  
racter from the Typhus described by European writers, and



no one has yet treated of this disease, as it appeared in the United States so correctly as my worthy preceptor Doct. Chapman, and to him I am indebted for much information on this subject, and shall proceed to detail the most effectual plan of treatment.

Treatment.—Truly unfortunate is it, that medical advice is not sought for on the first attack of fever, the most happy patient often flatters himself, that the primary feelings of disease will gradually subside of themselves, and being controlled by this mischievous impression, permits the disease to advance until, deterred by an alarming combination of symptoms, he is out for medical aid; after the disease is fully established, when if he had done justice to himself, he would have called for assistance in the early stage, because for the most part, they might then be completely arrested, or so much reduced in their force, as to be finally overcome.

The symptoms of Typhus vary according to the time it has continued; hence the remedies proper at one period will be found invariably deleterious at another. So soon as the patient is attacked by this disease it is absolutely requisite,



to support immediate rest, this being neglected, the hazard  
is always much augmented, by attempting to cast it off by  
business or exercise.

In the commencement of typhus the system appears to be  
depressed, by a kind of preternatural burden, and not really  
as some have supposed, in a state of exhaustion.

Called in the early or forming stage, emetics are general-  
ly resorted to, though there is great diversity of opinion as to  
the kind & time of practice, but whatever may be the opinion, as to the  
ideal views, practitioners of this country coincide in the pro-  
prietty of the practice. The view with which emetics were  
formerly prescribed, was that the contagious matter did  
remain in the stomach, and that the further progress of the  
disease would be avoided by a thorough and complete eva-  
cuation of the stomach. To fulfil this indication, the antemo-  
niac emetics are preferred: they appear to make a peculiar im-  
pression on the system and according to the common & I re-  
spect man they display their most obvious effect in the  
digestion of the least complicated form: they produce a gen-  
eral relaxation of the surface, respiration becomes more easy,





The pulse is diminished in force and frequency. And it is said that, it is on the power which the heart derives, the blood to the extreme parts, and of keeping the balance of circulation, that their efficiency depends, to be exhausted. But, what but at an advanced period they aggravate all the symptoms, create much difficulty, and often protract the disease: hence they are strictly forbidden after typhus is fully established.

It was the practice of Cullen and the numerous pupils of the Edinburgh school, to follow emetics by the antimonial preparations so as to excite nausea: this was followed until about twenty five years ago, the propriety, then being called in question by Dr. Hamilton, and was supplanted by purgatives.

Having completely evacuated the stomach, it must be lost in freely moving the bowels, by means of saline cathartics, and none are superior to calomel, jalap, rheubarb and gamboge given separately or in combination. The system at the time has its susceptibility than natural, so that the bowels generally participate too far in the torpor; so that purgatives, ought to be given in such doses, as to ensure their full and desired effect. There is no risk to be apprehended, of weakening the patient.



but in cellular will strengthen, by contracting the stomach  
and canal of its divided cellular, which supports the system.

It also contributes to the restoration of its health  
by equilibrium. That the intestinal canal is in this condi-  
tion, is clearly indicated by the incessant long and pro-  
longed, green, watery, and dark olive discharges.

And until the nature of these evacuations be changed we re-  
peat the purges again and again, or at length, and present  
a dark green, watery, and watery appearance. According

to the operation of cathartics, it is recommended to administer  
the same medicines, by the exhibition of a cathartic emulsion,  
which may lessen or stop the irritability of the stomach,  
and thus give the aperients, more certainly, of being retained.

The morbidly increased temperature has involved so  
many important considerations, and being one amongst the  
most prominent symptoms of *typhus*, I will detail the various  
views of opinion, relative to its management before I pro-  
ceed to describe the most effectual plan of treatment.

For applications were employed by Vesalius and many  
other practitioners of his age with much success. But from



The various fluctuations of opinion and changes of practice, etc. in the disease, was overlooked for many years. Not more than a century ago, however, the practice was renewed, and the writer who at that time discovered its efficacy was much pleased with it, as to confer on it, the title of *Simulacrum magnum*.

In the Island of Jamaica not more than thirty years ago, the application of cold was in general use. Among the names of those who illustrated the efficacy of cold as a remedy in fever, that of the late Dr. Ferriarum undoubtedly stands preeminent.

The rules which this inestimable writer, laid down, as being his invaluable remedy were as follows: The best time for reducing preternatural heat in this disease, by the application of cold water, is, when the circulation is at its full height, or immediately after it has begun to decline. He, therefore, directs it to be employed, from six to nine o'clock in the evening, the period at which the fibrile action is most intense, though it may be used at any other period in the twenty four hours, when there is no sense of chilliness, present, no general or profuse perspiration, and when the temperature of the surface is exactly above what is natural, with the exception of those



cases in which there is much local congestion, especially of the  
lungs.

Cold may be applied in form of ablution, as friction and aspersion.  
The latter or that of sponging is preferable. It may be done with  
cold water alone or mixed with brandy or vinegar. These applica-  
tions produce some very salutary effects when there is great heat  
and determination to the head. It is in the first stage of this  
disease, that the use of cold is most urgently demanded. It di-  
minishes the heat and dryness of the skin, allays irritation, pain  
and restlessness.

Dr. Cullen it is said, that cold is only applicable, when the  
inflammation is at its full height, and attended with a hot, dry  
skin, flushed countenance, inordinate thirst, restlessness and  
anxiety. But he goes on further and states, that there are cer-  
tain symptoms in the advanced stage which call for as-  
persion with cold water, and recommends as preparatory  
to its exhibition, opium, brandy and other diffusible stim-  
ulants, with, however, exciting a powerful action in the system.  
There are various opinions relative to the modus operandi of cold.  
Cullen supposed it acted simply by attracting the vessels of heat.





from the surface. But, it is maintained by Dr. Jackson, who is  
celebrated and eminently distinguished, for Theory and practice  
that, cold applications are invested with the peculiar power  
of making a strong and lasting impression on the system; by  
which, the morbid actions are subdued or materially changed  
and which, according to this distinguished practitioner, is  
exerted independently of the abstraction of heat. - In prescri-  
bing this remedy, he solicits our attention, to the causation of a  
susceptible condition, and should this be absent, he recom-  
mends, or its restoration, the use of friction, the warm bath &c;  
fostering also the application of cold, when there is a high de-  
gree of arterial action, and advises, as preparatory to its use,  
venesection and other depletion measures.

In making cold applications to the surface, the rules which  
Cruikshank has laid down, are generally admitted to be the most  
hazardous and more convenient than any other except spon-  
ging; which is generally resorted to in this country and has  
many advantages which ~~oblation~~ and ~~affusion~~ are  
wholly destitute of. It is said that Dr Gregory of Edin-  
burgh destroyed one of his own children in a canker sore.



by immersing it in cold water, the system being so suddenly depressed, could not react, and the innocent sufferer fell a victim before it could be removed from the bath.

Having employed emetics, cathartics and cold applications and the disease not being arrested in its progress, we must then resort to diaphoretics. The principle upon which they act in this disease, is similar to that of all febrile affections.

In prescribing diaphoretics we should always take the general system into consideration. If there be not much prostration we resort to the milder diaphoretics, and in the contrary, if the system appears to be sinking, and symptoms of great debility, the most stimulating remedies are urgently demanded. But, in this disease after making the necessary evacuations, the milder diaphoretics are generally resorted to, such as the sweet whey, mace or saline draught. This is very palatable, acts well on the stomach, diminishes thirst, reduces the temperature, and produces a general relaxation of the surface.

To fulfil nearly the same indication, the dulcified spirits of rye, has been exhibited in large doses, at short intervals: it appears to cool the surface of the body, allays the inordinate thirst, and produces



an agreeable mixture. We recommended by some to give this medicine in combination with Laudanum when the latter is not contraindicated.

Not less effectual, if not superior to the remedy just mentioned, is the *Spiritus mundeuri* but this remedy being less palatable to the patient, will often be rejected, when the former will be swallowed without a murmur. An auxiliary to either of the above Diaphoretics, the vapour bath, warm fomentos, bags of hot sand, salt, or cold, or boiled corn, applied to different parts of the body, will in many cases, hasten and aid in the production of sweat.

The antimonial preparations are admirably calculated to reduce excitement, in the ordinary febrile affections, but in the stage of Typhus, they are contraindicated, because having a tendency to prostrate the system, aggravate the existing excitement, and prevent the secretion of the feces. Why they are not applicable to this disease, as to other fevers, it remains inexplicable. Having enumerated the remedies with which we combat the first stage of Typhus, we will at once see, that they are all of the depressing character, or such as tend to remove



excrement, diminish heat, and raise colour.

Scorbutic blood, which has been said, relative to the pathology of Syphilis, does in certain cases, exhibit peculiarities in the common and more common of the inflammatory Type. Thus being evidenced by the hard contest and frequent pulse, excessive thirst, dryness of the skin, the wild sanguine countenance and great determination to the head. It gives rise also show many marks of inflammation and its ordinary effects more frequently in the brain. The blood detected in the early stage of certain cases of this disease, frequently exhibits size and turgor. These being the most prominent symptoms, there can be no doubt as to the efficacy of depletion by venesection. It has been frequently resorted to in this country, and with unequivocal advantage. But this remedy should be used cautiously, and only by skillful and discriminating practitioners. It has also been remarked, that venesection is more frequently called for in private practice, than in public institutions, such as *hospitals*.

Having detailed the treatment of the first stage of Syphilis and the disease not being arrested in its progress, the symptoms of great prostration and debility begin to develop themselves;





when can be left. In ancient times it was used. It is now  
used in the preparation of cold support for the system. To  
prevent this in the case, we must suspend it until the system  
and substitute condense, and the most difficult. The most  
such as the volatile alkali in small and repeated doses, in the  
commencement, acted in some cases, or in form of the volatile  
perhaps is one of the most repeated as necessary may be given.  
The dose appears small, but it is not our design at this point  
to fully awaken or develop the powers of the system, because  
because it would be hazardous and exhaust the system  
probability.

To fulfill nearly the same indication, camphor has been  
prescribed, and is said by some to be superior to the others  
of aromatics, but the latter is undoubtedly more efficacious  
at this stage of the disease. The camphor is better adapted  
to the more advanced stage, when attended with torpor  
and great prostration. There are various modes of admin-  
istering camphor. It may be given in substance, or in form  
of an emulsion, which is preferable on account of its being  
effervescent, and not so apt to be rejected. A solution



of it in milk, is more palatable, and equally efficacious.  
It has been recently recommended by Dr. Wallace, to make  
a solution in sage water, which is very pleasant mode of  
administering it.

It is not ungenerally at this period, that vesicating applica-  
tions are called into requisition. As in inflammatory fevers,  
the efficacy of blisters in this disease have been denied by Fer-  
riar, Wright &c. But on the other hand, however, they are  
sanctioned by practitioners of great respectability.

It is said by Cullen and S. Linn, that there is more anxiety in  
the practice of our profession, which is well tested, in point of  
efficacy, as that of vesicating applications in the treatment  
of typhus. This fact is confirmed by the experience of the  
American practitioners. It is an established rule to apply  
blisters as near the local affection or seat of the disease as  
possible. But if no local determination exists, they may be  
applied either to the upper or lower extremities or both.

When there is great determination to the head, Linnæus &c.  
it is recommended, after trying cold applications, to shave  
the head, which will frequently give relief, in the course of,



six or eight hours. But, if the pain and other symptoms  
still continue unabated: we should apply a blister large  
enough to cover the whole head. It should remain on  
at least twenty four hours.

The object of blistering is to sustain excitement and tone  
of the system. Sinapisms have been recommended to  
fulfil the same indication, and by some practitioners are  
held to be superior: because they believed the great object to be  
the patient by depletion, but is idle in the extreme. Yet the  
efficiency of the two applications, blisters are a decided power  
and they make a more permanent impression and invigorate  
the system generally. But, unfortunately in all long forms  
of fever blisters seldom vesiculate, but act merely as cataplasms.

It has been a subject of much dispute among practitioners as  
regards the utility of opium in Typhus. According to Brown  
it should be placed at the head of the stimulants, and by  
him was said to be the most important remedy in the  
management of this disease. But the propriety of the  
practice, being questioned and objected to by Ferriar, has  
since lost considerable reputation. This contrariety of practice



can be solved by the supposition, that opium being adminis-  
tered under particular circumstances, can be directly use-  
ful to produce a permanent effect. But as to the efficacy  
of opium, when properly used, and by a judicious  
long practitioner there cannot be the least doubt: it has some-  
thing peculiar in its operation, allays pain and irritation,  
and compels to sleep. It is at this stage of the disease that opium  
is most urgently called for, and may be given in doses  
of gr. iij. to ℥. i. three hours; continuing at the same time  
the use, whether of those medicines, which are calculated  
to support the system. For this purpose, nothing answers bet-  
ter than mulecia cerea: it is grateful to the Stomach, pecu-  
liarly stimulant and nutritive.

As to the use of medical wine, the physician took  
it, formerly much used to, but at this time is only used in  
cases of Dysentery, when there is a tendency to remit. This being  
a form of the disease, and requires to discover it, that the practitioner  
should pay great attention to the progress of the disease: because  
the period at which these remissions take place, is not fixed  
though it is generally about the middle of the disease, and





may be taken to the last degree. The remedy to be used  
depends much upon the nature of the disease. First, we  
must consider what it generally is in the United  
States. The disease, as far as my knowledge goes, is a  
fever of an acute nature, it is a sort of typhus.  
The disease being in an acute state, it is not  
advisable to treat it with cold without being rejected.  
When this is the case, the officinal preparations of medicine will  
sometimes be retained, but in some cases the stomach will be  
so irritable, that it cannot be retained in any form whatever,  
or even its susceptibility to its composition. We then give  
it for a reason, or resort to some of the better tonics. The best of  
which can be substituted is a decoction of the Sarsaparilla,  
which is cordial to the stomach and peculiarly adapted to this case.

Still fasting, arsenic has become a fashionable remedy, but  
it is undoubtedly much inferior, in the treatment  
of typhus, to the above named remedies.

We must never give the same indication, and more frequently  
when there are various symptoms, such as diarrhoea, vomiting,  
fever, sweating, and loss of appetite. The antiperiodics



are called interjections, the chief of which are, *mark*, *enter*,  
and *expolida*, the former being most common, and is gene-  
rally employed. It may be exhibited in form of lozenges or  
pills, the former is bulky and apt to be rejected, hence the latter  
mode is preferable.

Castor is less efficacious and rarely prescribed.  
But, *expolida*, though undoubtedly inferior to *mark*, is an  
excellent remedy in the treatment of this disease. It may be  
given in shape of pills, or a watery solution. The dose is the same  
as that of *mark*. It is used by some practitioners, but with a  
particle, as, indeed, with some peculiar power, in combating  
venous affections. But on the other hand, we have just seen, a  
good authority in favour of opium.

In the last stage of dysphens, the carbuncle seed, has been exhibited  
in the form of pill. The author of this practice was led  
to its use, from the supposition that it was possessed of some  
peculiar properties. But to our university the cure is dead, for as  
taining, that whatever may be the appearance of the disease, par-  
a *live* never takes place in the living subject. Be this there-  
fore, correct or not, the practice is completely unjust.



but since acid is present, it is to be feared of increasing the demand  
of its discharges, and by the impurities thus made, imparts  
loss to the general system.

The sulphur water, the draught of Hecimus or the malt liquor  
may be substituted for the yeast. The latter of which is preferred  
in some of the European hospitals cider is preferred: but  
though it may be more palatable to the patient, experience teaches  
us that it is much inferior to perfectly ripe pears.

It is said to have been recommended with the view  
of arresting putrefaction. They were administered  
about fifty years ago in Great Britain. But to us in America  
Hecimus the acid is too far establishing their efficacy in the  
treatment of this kind. It was from this <sup>the</sup> easy in the  
management of angina maligna, that he was induced  
to try them in the other stages of fever, and more particu-  
larly in typhus. After having vaccinated the patient  
in a small dose, his practice was, to exhibit these acids freely and  
repeatedly; which being done, was attended with success  
in all the cases of this kind.

In the alliterations of Hecimus may be added, that it is more



with joined moderate copulation on the continent  
Europe. Not daring to be too sanguine, Syden-  
hamer managed the mercurial hospitals in that country, and the  
benefit of Sydenham's practice was so great, as to cause the King  
to give him fifty thousand crowns, to discharge the debt  
which was ascertained to consist in the use of the mineral acids.  
Notwithstanding this ought of civility in favour of their im-  
provement, they have not been attended with the same success  
in this country, nor can it be credited, that they are invested  
with properties, capable of supporting strength in the last  
stage of this disease. The mercurial acid is generally given  
to fulfil this indication, the dose is from grs. x to xv. given in  
a decoction of persea or bark or is mucilag. the latter however.

Mercury having been productive of such salutary effects  
in common febrile affections, has not been altogether contraindicated  
in the last stage of Syphilis. I have before mentioned, that it  
is given in the first stage, with the view of relieving the elementary  
causes, of its secret and vitiated contents. Not unfrequently  
in the latter stage of this disease, there are dark, fœtid acrimo-  
nious on the tongue, gums, and fauces, and in all probably





the whole calisternal canal, is lined with the same, there we seem  
ing symptoms, and call for mercury in small and repeated  
doses; in the various purposes, of increasing their calisternal  
tissue, and of exciting a mercurial fever, which will support  
the existing diseased action. The remark at this time is par-  
ticularly very suitable, and however small the dose may be, it  
will frequently be rejected. We then use it externally, in form  
of an ointment, or a liniment, or a poultice. It is to be re-  
minded, that in the exhibition of this remedy, we are not to  
desist from the free use of stimulant and cordial medicines.  
It is abundant then, and trust to mercury alone would be dan-  
gerous, and tampering with the life of the patient.

There are certain local determinations, which yet remain  
to be spoken of more particularly, such as, pain, and great  
determination to the head: Throwing on dispute, that the  
brain is the chief seat of the disease, or that it has exerted its  
whole force on this important organ. The local affections  
are attended with the primary, as well as the subsequent stage.

The indications when these phenomena present, are plain  
and intelligible, the brain being in a congested and



It cannot even then, unless by accident, be considered as a disease, it  
would apply to us as a general depletion by superfluities  
and when these run out to find, the temper of the system  
is improved. These remedies will often relieve the pain and  
dilatation. But should they fail, the whole head may be covered  
with a large blister. The spinal marrow however, being  
connected with the brain not uniformly participates in  
these various determinations. We may, when such symptoms  
present, expect much benefit from revulsions to the spine  
and the back of the neck more particularly. Some of the functions  
of the spinal marrow, the extensors, the circular, and  
other muscles of the trunk, arms, and legs, are impaired, or  
altogether suspended.

Paralysis is produced in the commencement by the  
inflammation of the brain, and with the more advanced stage,  
by debility of the brain. And at this period morbid  
sensitivity, anxiety, restlessness, and not unfrequently tremor,  
become more distressing. And it is at this conjuncture,  
that opium stands, as yet, unvalued. It may be given  
alone, or in combination with the acetate of potassium &c.



there are the general remedies with which we combat  
Typhus, but, without abandoning all our efforts, we still rely  
on the treatment of this disease, that is to say, on  
the attempts to remove all accumulations of matter  
instantly, and to pay great attention to cleanliness. Also the  
bed clothes and body linen should be changed at least  
once in twenty-four hours. Next, the apartment must be visited  
often, and should be frequently ventilated, as far as possible, in  
order to make communication with the outside air to pass, thus not  
to prevent the progress of contagion. But, it sometimes hap-  
pens, that the chamber cannot be ventilated; we should  
then remove the patient into another apartment. And lastly,  
it is highly important to exclude company and commu-  
nication with all persons and more particularly, in the disease before us,  
they disturb the mind of the patient, prevent sleep &c.  
Regimen.—In moderate cases, it is requisite to enjoin a strict absten-  
tence to the antiplogistic plan in the first stage, but it  
advanced, requires a more nutritious diet; such as the  
usage of beef, with the free exhibition of wine as the most  
diffusible stimulant. The vinous will be well indicated &c.



To phrase notwithstanding all our efforts sometimes it is  
a violent and protracted a train of symptoms, which nothing ex-  
tenuating and slight it. But this should not be us from per-  
sistance in our remedies; for recovery has often place in this  
disease, under the most gloomy and desperate circumstances.  
We should augment the dose of all our remedies, and particularly  
of the volatile alkali and wine.

The oil of turpentine, given in doses of  $\mathfrak{z}$  or more every half  
hour, will sometimes arouse the system, when most other remedies  
have failed. The credit is undoubtedly due to Dr. Chapman  
for the introduction of this remedy, in the treatment of Typhus  
fever. Cayenne pepper has been much resorted to by the West  
India practitioners; they were led to use it in the last stage  
of this disease, from its being so effectual in the treatment of  
epistaxis, meningitis, and the success of the practice is con-  
firmed by the practitioners of this country. It is administered  
in doses of  $\mathfrak{ss}$  repeated as necessary many times.

Respect to the same indication phosphorus has been recommended  
it but being so deleterious in its effects, when not well treated,  
is seldom resorted to.

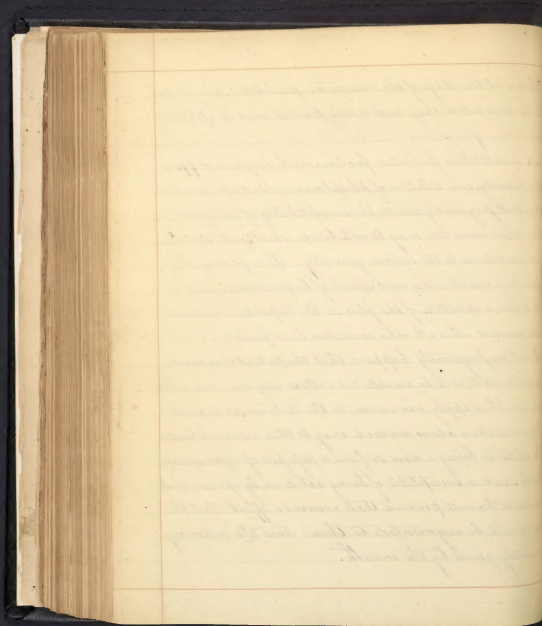




Blisters at this stage of the disease are prohibited; they seldom  
cure, and when they do, it is only partial, and is apt to  
produce gangrene.

As a substitute for blisters, frictions with cayenne pepper  
and brandy, or a solution of phosphorus rubbed over the whole  
body, will frequently excite the susceptibility of the system, so  
that, other remedies may be exhibited: which will sustain  
and give tone to the system generally. These failing, the  
tincture of cantharides and spirit of turpentine, or what is  
still better, a decoction of the flies in the turpentine, will some-  
times, succeed when all other remedies have failed.

It not unfrequently happens, that the patient becomes so  
far exhausted, as to be unable to swallow any medicine what-  
ever: we then apply our means to the rectum, and most  
of the remedies above named may be thus administered.  
The rectum being a new surface, is possessed of more suscep-  
tibility, and is susceptible of being acted on, by opium, mulli  
or wine: either will produce their common effect. But, the  
dose should be augmented to three times the ordinary  
quantity given by the mouth.



Having now detailed the most approved plan of treating  
this disease, as it appears in the United States. I can only  
recommend, perseverance in all the remedies, as the most effec-  
tual means of substituting healthy for diseased action.

Let the symptoms be ever so alarming and heinous,  
we must not despair, but go on increasing the dose of all our  
remedies, by which means, the lives of many are saved.

*[Faint, illegible handwriting on lined paper]*